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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

	Application Number	10/743,884
	Filing Date	December 22, 2003
	First Named Inventor	Yizhong Gu
	Art Unit	1645
	Examiner Name	Not yet assigned
Total Number of Pages in This Submission	Attorney Docket Number	01492.US1

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
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Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Pharmacia & Upjohn Company	Edward F. Rehberg 34,703
Signature		
Date	6-3-04	

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00)

Complete if Known

Application Number	10/743,884
Filing Date	December 22, 2003
First Named Inventor	Yizhong Gu
Examiner Name	Not yet assigned
Art Unit	1645
Attorney Docket No.	01492.US1

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Order Other None
 Deposit Account:Deposit Account Number
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21-0718

Pharmacia & Upjohn Company

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FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee			
1002 340	2002 170	Design filing fee			
1003 530	2003 265	Plant filing fee			
1004 770	2004 385	Reissue filing fee			
1005 160	2005 80	Provisional filing fee			
SUBTOTAL (1)		(\$ 0.00)			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
	-20** =	0 X \$0.00	= \$0.00
Independent Claims	- 3** =	0 X \$0.00	= \$0.00
Multiple Dependent		\$0.00	= \$0.00

Large Entity	Small Entity	Fee Description	
1202 18	2202 9	Claims in excess of 20	
1201 86	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 86	2204 43	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)		(\$ 0.00)	

*or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

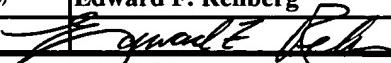
Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 180.00)

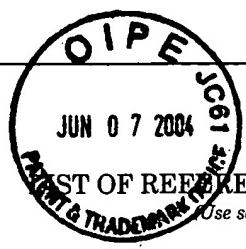
SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Edward F. Rehberg	Registration No. (Attorney/Agent)	34,703	Telephone (269) 833-7829
Signature			Date	6-08-04

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LIST OF REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)

Atty. Docket No.

01492.US1

Serial No.

10/743,884

Applicant Yizhong Gu

Filing Date December 22, 2003

Group 1645

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,366,241	Dec. 28, 1982	Tom, et. al.	435	7	
	AB	4,376,110	March 8, 1983	David, et. al.	436	513	
	AC	4,517,288	May 14, 1985	Giegel, et. al.	435	7	
	AD	4,837,168	June 6, 1989	De Jaeger, et. al.	436	533	
	AE	5,118,937	June 2, 1992	Hillenkamp et. al.	250	282	
	AF	5,514,545	May 7, 1996	Rosenstein	436	514	
	AG	5,591,645	Jan. 7, 1997	Eberwine	435	6	
	AH	5,622,871	Apr. 22, 1997	May, et. al.	436	514	
	AI	5,719,060	Feb. 17, 1998	Hutchens, et. al.	436	174	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	AJ	WO 91/09955	July 11, 1991	WIPO	C12N	15/67	X
	AK	WO 91/18982	Dec 12, 1991	WIPO	C12N	15/12	X
	AL	WO 92/20808	Nov. 26, 1992	WIPO	C12N	15/85	X
	AM	WO 93/11236	June 10, 1993	WIPO	C12N	15/13	X
	AN	WO 94/12650	June 9, 1994	WIPO	C12N	15/90	X
	AO	WO 95/35505	Dec. 28, 1995	WIPO	G01N	33/543	X
	AP	WO 97/09433	Mar. 13, 1997	WIPO	C12N	15/54	X
	AQ	EP A 0367566	May 14, 1997	Europe	C12N	15/12	X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Smith, T.F., and M.S. Waterman, "Comparison OF Biosequenes," in <u>Advances in Applied Mathematics</u> 2, pp. 482-489, 1981.
AS	Asai, ed. Methods in Cell Biology Volume 37, Chapters 6, 7, &8; Antibodies in Cell Biology, Academic Press, Inc. New York (1993)
AT	Aujame et al., Human Antibodies, 8(4):155-168 (1997);
AU	Ausubel et al., eds., Current Protocols in Molecular Biology, Section 10.11.8, John Wiley & Sons, New York 1993

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		Applicant Yizhong Gu		
		Filing Date 2003	December 22,	Group 1645
AV	Ausubel et al., eds., Current Protocols in Molecular Biology, Chapter 11, John Wiley & Sons, New York 1993			
AW	Ausubel, et.al. (Eds.), Protocols in Molecular Biology, John Wiley & Sons (1994), pp. 6.0.3 to 6.4.10.			
AX	Bolton and Hunter, Biochem. J. 133, 529 (1973)			
AY	Bruggemann and Neuberger, Immunol. Today, 17(8):391-97 (1996)			
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BA	Capecchi, Science 244:1288-1292 (1989)			
BB	Choo et al., (1997) J Mol Biol 273:525-32			
BC	Cole et al., pg. 77-96 in Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc. (1985)			
BD	Cosman et al. (<i>Nature</i> 312:768 (1984)			
BE	Cosman et al. (<i>Mol. Immunol.</i> 23:935 (1986)			
BF	Dayhoff, in Atlas of Protein Sequence and Structure, Vol. 5, p. 124, National Biochemical Research Foundation, Washington, D.C. (1972)			
BG	Evan et al., Molecular and Cellular Biology, 5:3610-3616 (1985)			
BH	Field et al., Mol. Cell. Biol., 8:2159-2165 (1988)			
BI	Gluzman et al., <i>Cell</i> 23:175 (1981)			
BJ	Greisman and Pabo (1997) <i>Science</i> 275:657-61			
BK	Harlow et al. (Eds), Antibodies A Laboratory Manual; Cold Spring Harbor Laboratory; Cold Spring Harbor, NY (1988), Chapter 6 and 14			
BM	Hoefler, G., et. al., cDNA cloning of the human peroxisomal enoyl-CoA hydratase:3-hydroxyacyl-CoA dehydrogenase bifunctional enzyme and localization to chromosome 3q26.3-3q28: a free left Alu arm is inserted in the 3-prime noncoding region. <i>Genomics</i> 19: 60-67, 1994.			
BN	Hoogenboom, TIBTECH, 15:62-70, 1997.			
BO	Hopp, et. al., BioTechnology, 6:1204-1210, 1988.			
BP	Hopp and Woods, Mol. Immunol, 1983, 20(4): p. 483-489			
BQ	Hopp and Woods, Proc. Natl. Acad. Sci. USA 1981, 78(6) p. 3824-3828			
BR	Innis, M.A., PCR Protocols: A Guide to Methods and Applications, David H. Gelfand, John J. Sninsky, and Thomas J. White, eds., Academic Press, Inc., New York, 1990.			
BS	Kim et al., (1997) Proc Natl Acad Sci USA 94:3616-3620			
BT	Kohler, G. and Milstein, C., <i>Nature</i> 256: 495-497 (1975)			
BU	Kozbor et al., <i>Immunology Today</i> 4: 72 (1983)			
BV	Lehninger, [Biochemistry, Second Edition; Worth Publishers, Inc. NY:NY (1975), pp.71-77			

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		Filing Date 2003	December 22,	Group 1645
BW	Liu et al., (1997) Proc Natl Acad Sci USA 94:5525-30			
BX	Luckow and Summers, <i>Bio/Technology</i> 6:47 (1988)			
BY	Lutz-Freyermuth et al., Proc. Natl. Acad. Sci. USA, 87:6393-6397(1990)			
BZ	Maddox et al., 1983, J. Exp. Med., 158:1211			
CA	Margalit, H. et al., J. Immunol. 1987 138(7): pg 2213-29			
CB	Martin et al., <i>Science</i> , 255:192-194 (1992)			
CC	McColl et al., (1999) Proc Natl Acad Sci USA 96:9521-6			
CD	Morrison, Methods in Enzymology 32b, 103 (1974)			
CE	Okayama and Berg (<i>Mol. Cell. Biol.</i> 3:280 (1983));			
CF	Paborsky et al., Protein Engineering, 3(6):547-553 1990			
CG	Qi, C., et. al., Absence of spontaneous peroxisome proliferation in enoyl-CoA hydratase/L-3-hydroxyacyl-CoA dehydrogenase-deficient mouse liver: further support for the role of fatty acyl CoA oxidase in PPAR-alpha ligand metabolism. <i>J. Biol. Chem.</i> 274: 15775-15780, 1999			
CH	Rader et al., <i>Curr. Opin. Biotechnol.</i> , 8:503-508 (1997)			
CI	Rattan et al., "Protein Synthesis: Post-translational Modifications and Aging", Ann NY Acad Sci (1992) 663:4842			
CJ	Sambrook, et al., (Eds.), <i>Molecular Cloning: A Laboratory Manual</i> , Cold Spring Harbor Laboratory Press: Cold Spring Harbor, New York (1989), pp. 9.47 to 9.51.			
CK	Segal et al., (1999) Proc Natl Acad Sci USA 96:2758-2763			
CL	Seifter et al., "Analysis for protein modifications and nonprotein cofactors", <i>Meth Enzymol</i> (1990) 182:626-646			
CM	Skinner et al., <i>J. Biol. Chem.</i> , 266:14163-14166 (1991)			
CN	Stites & Terr, eds. <i>Basic and Clinical Immunology</i> 7th Edition, Chapter 18, (1991)			
	Syvanen et al., <i>J. Biol. Chem.</i> 284, 3762 (1973)			
CO	Tijssen, P. (1993) <i>Laboratory Techniques in Biochemistry and Molecular Biology: Hybridization With Nucleic Acid Probes, Part I. Theory and Nucleic Acid Preparation</i> , Chapter 3, Elsevier, New York, N.Y			
CP	Wanders, R. J. A. et. al., A bifunctional protein with deficient enzymic activity: identification of a new peroxisomal disorder using novel methods to measure the peroxisomal beta-oxidation enzyme activities. <i>J. Inherit. Metab. Dis.</i> 13: 375-379, 1990.			
CQ	Watkins, P. A., et. al., Peroxisomal bifunctional enzyme deficiency. <i>J. Clin. Invest.</i> 83: 771-777, 1989.			
CR	Wold, F., <i>Post-translational Protein Modifications: Perspectives and Prospects</i> , pgs. 1-12 in <i>Postranslational Covalent Modification of Proteins</i> , B. C. Johnson, Ed., Academic Press, New York, 1983			
CS	Wu et al., (1995) Proc Natl Acad Sci USA 92:344-348			
Examiner		Date Considered		